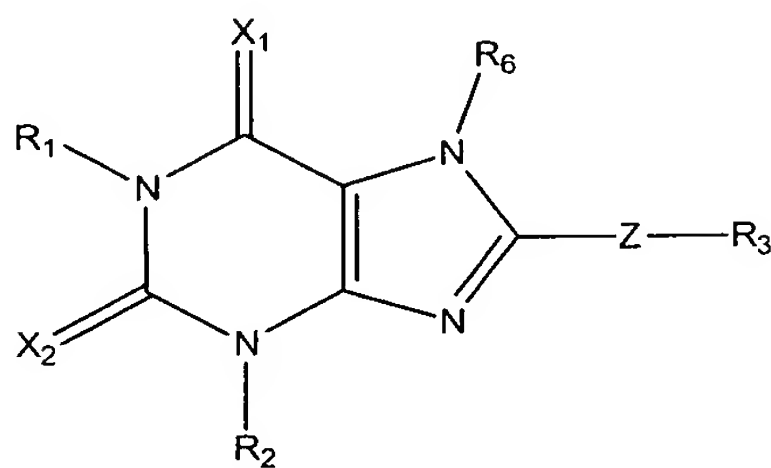


**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) A compound comprising the formula:



wherein **R<sub>1</sub>** and **R<sub>2</sub>** are independently selected from the group consisting of:

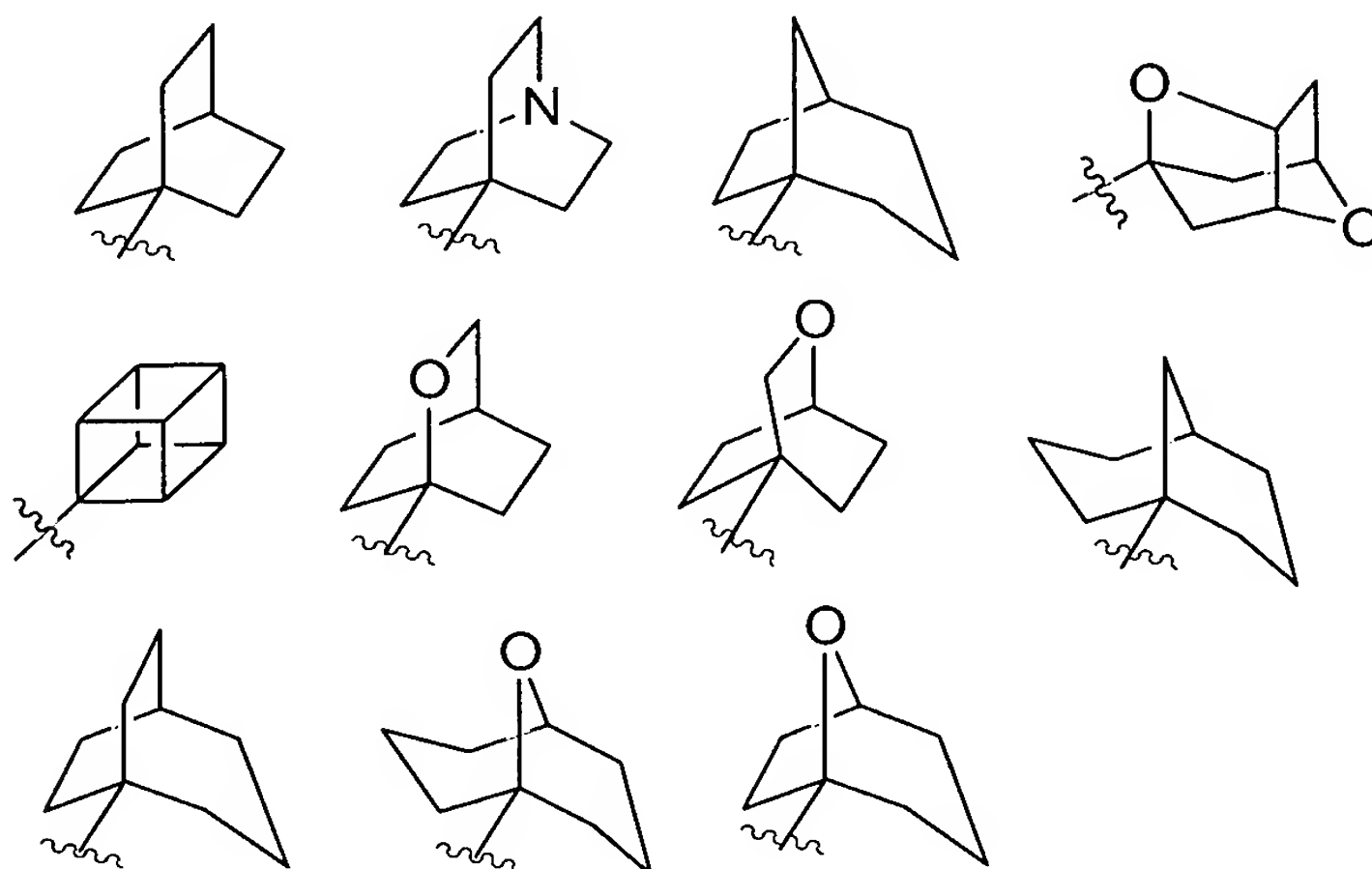
a) hydrogen;

b) alkyl, alkenyl of not less than 3 carbons, or alkynyl of not less than 3 carbons; wherein said alkyl, alkenyl, or alkynyl is either unsubstituted or ~~functionalized~~ substituted with one or more substituents selected from the group consisting of hydroxy, alkoxy, amino, alkylamino, dialkylamino, heterocyclyl, acylamino, alkylsulfonylamino, and heterocyclylcarbonylamino; and

c) aryl or substituted aryl;

**R<sub>3</sub>** is selected from the group consisting of:

(a) a bicyclic, tricyclic or pentacyclic group selected from the group consisting of:



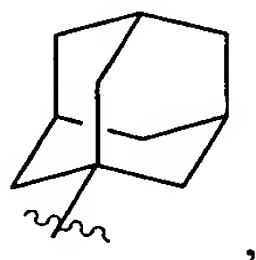
wherein the bicyclic or tricyclic group is either unsubstituted or functionalized substituted with one or more substituents selected from the group consisting of:

(a) alkyl, alkenyl, and alkynyl; ~~wherein each alkyl, alkenyl, or alkynyl group is either unsubstituted or functionalized~~ substituted with one or more R<sub>5</sub>-alkylamino substituents ~~selected from the group consisting of (amino)(R<sub>5</sub>)acylhydrazinylcarbonyl, (amino)(R<sub>5</sub>)acyloxy, (hydroxy)(carboalkoxy)alkylcarbonyl, acyloxy, aldehyde, alkenylsulfonylamino, alkoxy, alkoxycarbonyl, alkylaminoalkylamino, alkylphosphono, alkylsulfonylamino, carbonyl, R<sub>5</sub>, R<sub>5</sub>-alkoxy, R<sub>5</sub>-alkylamino, cyano, cyanoalkylcarbonyl, cycloalkylamino, dialkylamino, dialkylaminoalkylamino, dialkylphosphono, haloalkylsulfonylamino, heterocyclylalkylamino, heterocyclylcarbonyl, hydroxy, hydroxyalkylsulfonylamino, oximino, phosphono, substituted aralkylamino, substituted~~

~~arylcarboxyalkoxycarbonyl, substituted heteroarylsulfonylamino, substituted heterocyclyl, thiocarbamoyl, and trifluoromethyl; and~~

(b) ~~(alkoxycarbonyl)aralkylearbamoyl, aldehyde, alkenoxy, alkenylsulfonylamino, alkoxy, alkoxycarbonyl, alkylearbamoyl, alkoxycarbonylamino, alkylsulfonylamino, alkylsulfonyloxy, amino, aminoalkylaralkylearbamoyl, aminoalkylearbamoyl, aminoalkylheterocyclylalkylearbamoyl, aminocycloalkylalkylecycloalkylearbamoyl, aminocycloalkylearbamoyl, aralkoxycarbonylamino, arylheterocyclyl, aryloxy, arylsulfonylamino, arylsulfonyloxy, carbamoyl, carbonyl oxo, -R<sub>5</sub>, R<sub>5</sub>-alkoxy, R<sub>5</sub>-alkyl(alkyl)amino, R<sub>5</sub>-alkylalkylearbamoyl, R<sub>5</sub>-alkylamino, R<sub>5</sub>-alkylearbamoyl, R<sub>5</sub>-alkylsulfonyl, R<sub>5</sub>-alkylsulfonylamino, R<sub>5</sub>-alkylthio, R<sub>5</sub>-heterocyclylcarbonyl, cyano, cycloalkylamino, dialkylaminoalkylearbamoyl, halogen, heterocyclyl, heterocyclylalkylamino, hydroxy, oximino, and phosphate phosphono, substituted aralkylamino, substituted heterocyclyl, substituted heterocyclylsulfonylamino, sulfoxyacylamino, and thiocarbamoyl; and~~

(b) the tricyclic group:



wherein the tricyclic group is functionalized substituted with one or more substituents selected from the group consisting of:

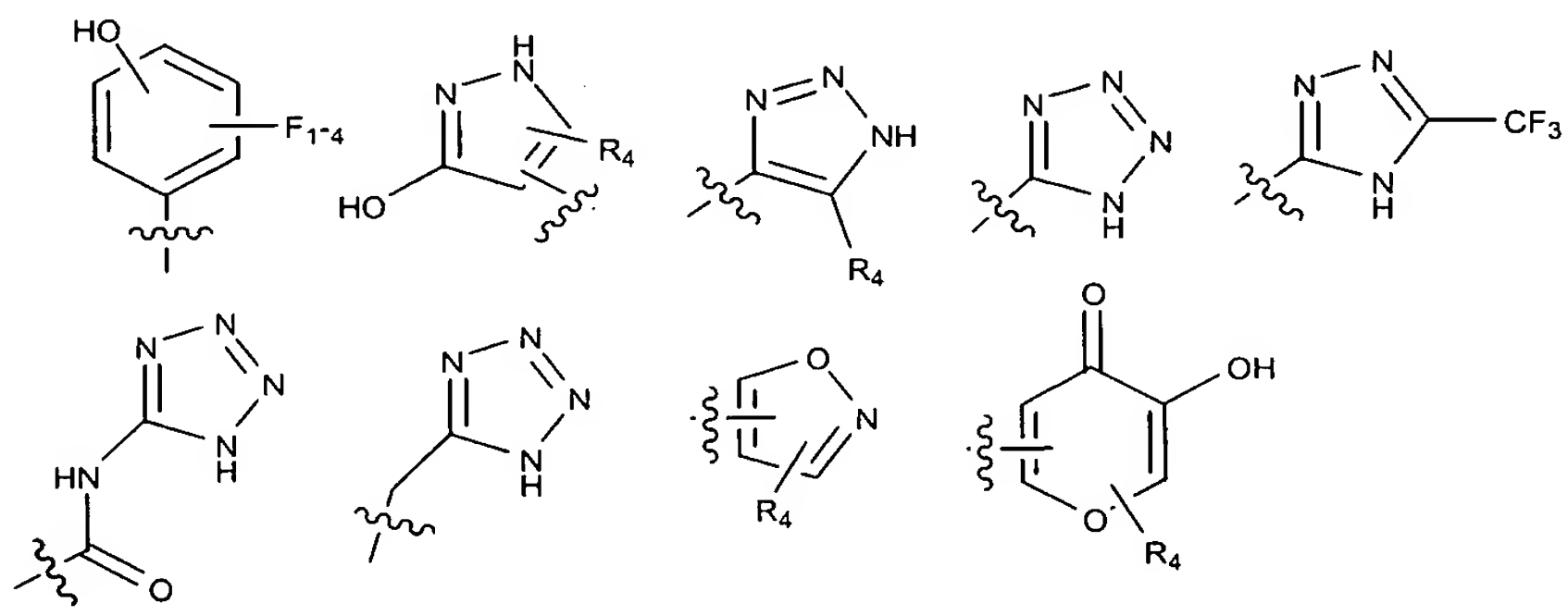
(a) alkyl, alkenyl, and alkynyl; wherein each alkyl, alkenyl, or alkynyl group is either unsubstituted or ~~functionalized~~ substituted with one or more substituents selected from the group consisting of (amino)(R<sub>5</sub>)acylhydrazinylcarbonyl, (amino)(R<sub>5</sub>)acyloxycarboxy, (hydroxy)(carboalkoxy)alkylcarbamoyl, acyloxy, aldehydo, alkenylsulfonylamino, alkoxy, alkoxycarbonyl, alkylaminoalkylamino, alkylphosphono, alkylsulfonylamino, carbamoyl, R<sub>5</sub>, R<sub>5</sub>-alkoxy, R<sub>5</sub>-alkylamino, cyano, cyanoalkylcarbamoyl, cycloalkylamino, dialkylamino, dialkylaminoalkylamino, dialkylphosphono, haloalkylsulfonylamino, heterocyclalkylamino, heterocyclcarbamoyl, hydroxy, hydroxyalkylsulfonylamino, oximino, phosphono, substituted aralkylamino, substituted arylcarboxyalkoxycarbonyl, substituted heteroarylsulfonylamino, substituted heterocycl, thiocarbamoyl, and trifluoromethyl; and

(b) (alkoxycarbonyl)aralkylcarbamoyl, aldehydo, alkenoxy, alkenylsulfonylamino, alkoxy, alkoxycarbonyl, alkylcarbamoyl, alkoxycarbonylamino, alkylsulfonylamino, alkylsulfonyloxy, amino, aminoalkylaralkylcarbamoyl, aminoalkylcarbamoyl, aminoalkylheterocyclalkylcarbamoyl, aminocycloalkylalkylcycloalkylcarbamoyl, aminocycloalkylcarbamoyl, aralkoxycarbonylamino, arylheterocycl, aryloxy, arylsulfonylamino, arylsulfonyloxy, carbamoyl, ~~carbonyl~~ oxo, -R<sub>5</sub>, R<sub>5</sub>-alkoxy, R<sub>5</sub>-alkyl(alkyl)amino, R<sub>5</sub>-alkylalkylcarbamoyl, R<sub>5</sub>-alkylamino, R<sub>5</sub>-alkylcarbamoyl, R<sub>5</sub>-alkylsulfonyl, R<sub>5</sub>-alkylsulfonylamino, R<sub>5</sub>-alkylthio, R<sub>5</sub>-heterocyclcarbonyl, cyano, cycloalkylamino, dialkylaminoalkylcarbamoyl, halogen, heterocycl, heterocyclalkylamino, oximino, ~~phosphate~~ phosphono, substituted

aralkylamino, substituted heterocyclyl, substituted heterocyclysulfonylamino, sulfoxyacylamino, and thiocarbamoyl;

**R<sub>4</sub>** is selected from the group consisting of hydrogen, C<sub>1-4</sub>-alkyl, C<sub>1-4</sub>-alkyl-CO<sub>2</sub>H, and phenyl, wherein the C<sub>1-4</sub>-alkyl, C<sub>1-4</sub>-alkyl-CO<sub>2</sub>H, and phenyl groups are either unsubstituted or ~~functionalized~~ substituted with one to three substituents selected from the group consisting of halogen, -OH, -OMe, -NH<sub>2</sub>, NO<sub>2</sub>, benzyl, and benzyl ~~functionalized~~ substituted with one to three substituents selected from the group consisting of halogen, -OH, -OMe, -NH<sub>2</sub>, and -NO<sub>2</sub>;

**R<sub>5</sub>** is selected from the group consisting of -CH<sub>2</sub>COOH, -C(CF<sub>3</sub>)<sub>2</sub>OH, -CONHNHSO<sub>2</sub>CF<sub>3</sub>, -CONHOR<sub>4</sub>, -CONHSO<sub>2</sub>R<sub>4</sub>, -CONHSO<sub>2</sub>NHR<sub>4</sub>, -C(OH)R<sub>4</sub>PO<sub>3</sub>H<sub>2</sub>, -NHCOCF<sub>3</sub>, -NHCONHSO<sub>2</sub>R<sub>4</sub>, -NHPO<sub>3</sub>H<sub>2</sub>, -NHSO<sub>2</sub>R<sub>4</sub>, -NHSO<sub>2</sub>NHCOR<sub>4</sub>, -OPO<sub>3</sub>H<sub>2</sub>, -OSO<sub>3</sub>H, -PO(OH)R<sub>4</sub>, -PO<sub>3</sub>H<sub>2</sub>, -SO<sub>3</sub>H, -SO<sub>2</sub>NHR<sub>4</sub>, -SO<sub>3</sub>NHCOR<sub>4</sub>, -SO<sub>3</sub>NHCONHCO<sub>2</sub>R<sub>4</sub>, and the following:



**X<sub>1</sub>** and **X<sub>2</sub>** are independently selected from the group consisting of O and S;

**Z** is selected from the group consisting of a single bond, -O-, -(CH<sub>2</sub>)<sub>1-3</sub>-, -O(CH<sub>2</sub>)<sub>1-2</sub>-, -CH<sub>2</sub>OCH<sub>2</sub>-, -(CH<sub>2</sub>)<sub>1-2</sub>O-, -CH=CHCH<sub>2</sub>-, -CH=CH-, and -CH<sub>2</sub>CH=CH-; and

**R<sub>6</sub>** is selected from the group consisting of hydrogen, alkyl, acyl, ~~alkylsulfonyl~~ alkylsulfonyl, aralkyl, substituted aralkyl, substituted alkyl, and heterocyclyl.

2. (Original) The compound of claim 1, wherein the compound is in a form selected from the group consisting of an achiral compound, a racemate, an optically active compound, a pure diastereomer, a mixture of diastereomers, and a pharmacologically acceptable addition salt.

3. (Original) The compound of claim 1, wherein **R<sub>1</sub>** and **R<sub>2</sub>** are each alkyl groups.

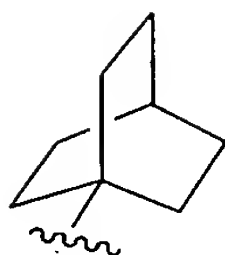
4. (Original) The compound of claim 1, wherein **R<sub>1</sub>** and **R<sub>2</sub>** are each n-propyl.

5. (Currently amended) The compound of claim 1, wherein **R<sub>1</sub>** is n-propyl and **[R<sub>3</sub>]** **R<sub>6</sub>** is selected from the group consisting of an unsubstituted aralkyl; aralkyl substituted with -OH, -OMe, or -halogen; methyl; and 3-hydroxypropyl.

6. (Original) The compound of claim 4, wherein **Z** is a single bond.

7 – 10. (Canceled)

11. (Currently amended) The compound of claim 6, wherein **R**<sub>3</sub> is



and wherein **R**<sub>3</sub> is either unsubstituted or ~~functionalized~~ substituted with one or more phosphono substituents ~~selected from the group consisting of hydroxy, R<sub>5</sub>-alkyl, R<sub>5</sub>, R<sub>5</sub>-alkenyl, alkoxycarbonyl, alkoxycarbonylalkyl, alkoxycarbonylalkenyl, hydroxyalkyl, aldehyde, alkoxyalkyl, R<sub>5</sub>-alkoxy, phosphate, R<sub>5</sub>-alkylcarbamoyl, and R<sub>5</sub>-alkyl(alkyl)carbamoyl.~~

12 – 38. (Canceled).

39. (Original) A medicament composition comprising a compound of claim 1 together with a suitable excipient.

40. (Original) A method of treating a subject suffering from a condition characterized by an elevated adenosine concentration and/or increased sensitivity to adenosine, the method comprising administering to the subject an effective adenosine antagonizing amount of a compound of claim 1.

41. (Original) The method of claim 40, wherein the condition is selected from the group consisting of cardiac and circulatory disorders, degenerative disorders of the central nervous system, respiratory disorders, diseases for which diuretic treatment is indicated, Parkinson's disease, depression, traumatic brain damage, post-stroke neurological deficit, respiratory depression, neonatal brain trauma, dyslexia, hyperactivity, cystic fibrosis, cirrhotic ascites, neonatal apnea, renal failure, diabetes, asthma, and edematous conditions.

42. (Original) The method of claim 40, wherein the condition is congestive heart failure or renal dysfunction.

43. (Canceled).